

No.



TO ALL TO WHOM THESE PRESENTS SHALL COME;

Seed Research of Oregon

DECEMP, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT ROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYERID OR NOT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84

FESCUE, TALL

'SR 8600'

In Testimon Microst, I have hereunto set my hand and caused the seal of the Hant Haristy Hostection Office to be affixed at the City of Washington, D.C. this twenty-second day of November, in the year two thousand and four.

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Commissioner Plant Variety Protection Office Agricultural Marketina Service U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following state neals are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Seduction Act (PEA) of 1995.

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NAME (Please print or type) Leah A. Bri Iman DATE Research Director 8-21-01 CAPACITY OR TITLE DATE	The undersigned owner(s) is(are) the owner and is entitled to protection under the provi	er of this sexually reproduced or tuber isions of Section 42 of the Plant Variet	propagated pla y Protection Ac	nt veriely, and believo(s) (lu 1.				
Leah A. Brilman DATE Research Director B-21-01 CAPACITY OR TITLE DATE	SIGNATURA OF PANER OF LAW G. BALL	Mana)		SIGNATURE OF (WNER		<u> </u>	
Research Director 18-21-01	NAME (Please print or type) Leah A. Bril	man		NAME (Please pri	nt or type)			
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GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a, Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

September 20, 2000

23. CONTINUED FROM FRONT (Please give the country, date of filling or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and

Public reporting butten for this collection of information is estimated to everage 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gamenty eminimizing the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other supect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7830, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1925, no persons are required to respond to a collection of information unless it displays a vasid OMB control number.

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S&T-470 (6-98) designed by the Plant Variety Protection Office with WordPartect 6.0s. Replaces SYD-470 (03-96) which is obsolete.

Exhibit A.

Origin and Breeding History of SR 8600 (SRX 8NJTF) Tall Fescue

SR 8600 (SRX 8NJTF) tall fescue (*Festuca arundinacea* Schreb.) is a low-growing, dark green, fine-leaved, turf-type tall fescue selected from the maternal progenies of 12 different clones.

The parental germplasm of SR 8600 tall fescue traces its origin to plants selected from old turfs of the United States in a germplasm collection program initiated in 1962 and to plants selected from or related to Rebel tall fescue (Funk et al., 1981). Attractive clones were selected from old turfs in Birmingham, AL; Athens, Atlanta, and Millegeville, GA; Preston, ID; Baltimore, MD; Bayonne, Jersey City, Elizabeth, Princeton, and Cape May, NJ; eastern North Carolina; Philadelphia, PA; Nashville, TN; Lexington, KY; Cincinnati, OH; Dallas, TX; and northern Mississippi. The tall fescue plants selected from old turfs were of unknown origin. All were large patches of turf surviving in stressful environments indicating that they had persisted and developed over a period of many years.

A few hundred attractive, turf-type plants were collected and established in spaced-plant nurseries and/or frequently mowed clonal evaluation trials at Rutgers University. All but a few dozen of the most promising plants were quickly discarded. The best selections were very different from any tall fescue variety in existence at the time of collection. They produced lower-growing turfs with finer leaves, greater density, darker color, and greater tolerance of close mowing.

The most promising plants were identified by their persistence and appearance in old turfs and their performance in spaced-plant nurseries, mowed clonal evaluation tests, and single-plant progeny trails under turf maintenance. Intercrosses of the best performing plants were subjected to varying cycles of phenotypic and genotypic selection depending on their date of collection. New sources of germplasm were added to the breeding program as it became available from the continuing collection program. Each cycle of selection showed continued progress in producing lower-growing, darker green, attractive plants with improved turf performance scores. Selection was also effective in maintaining high seed yields, and good stress tolerance. Substantial progress was made in developing tall fescues with finer leaves, a lower growth profile, increased persistence under close mowing, and increased density.

Large numbers of single-plant progenies were seeded in turf evaluation trials at the Plant Science Research Farm at Adelphia, NJ in 1995. The plants selected for progeny evaluation were selected from spaced-plant nurseries at Adelphia following varying cycles of phenotypic and genotypic selection of germplasm selected from old turfs and germplasm selected from or related to Rebel tall fescue.

Following a period of summer stress due to heat, drought, and disease, a total of 1,900 plants were selected from 19 of the best performing single-plant progeny turf plots. All 19 progenies were from the 1995 test. Selection of progenies was based on performance records, as well as appearance at the time the plants were selected from these progeny plots. Selection of plants from each progeny was based on an attractive dark green color, fine leaves, abundant tillering, and freedom from disease. Selected plants were sent to Seed Research of Oregon in the fall of 1996. In 1997 and 1998, Seed Research of Oregon classified the plants received from Rutgers based on maturity, height, color and leaf texture. SR 8600 was derived from the portion of plants designated at dwarf and early. These plants were all very dark green with fine leaf texture.

For most lines received 70 plants per line were established, with the exception of A95-246 were 105 plants were established and only 35 of A95-212 and A95-262. After

rouging these lines for stem rust resistance and seed yield potential, in addition to the above characteristics, the remaining plants of each row was harvested separately. Endophyte level was checked for the seeds from each row. In some cases the seed was included in the final breeder seed from one row but not the other from the same line. The lines are number of plants that contributed seed to the breeder seed (high E) are: A95-594, 43 plants; A95-246, 23 plants; A95-262, 29 plants; A95-660, 25 plants and A95-580, 7 plants. The lines and number of plants that only contributed pollen to the population were A95-246, 43 plants; A95-580, 23 plants; A95-660 18 plants and A95-212, 24 plants. Some of these lines had endophyte but the levels in the seed produced from a composite of plants from each row were less than 60%.

SR 8600 forms a high quality turf with a dark green color and dwarf growth habit. It contains high endophyte levels. It has shown excellent brown patch and leaf spot resistance. SR 8600 is a stable and uniform variety. A few variants that are taller and with wider leaves than the rest of the variety have been observed in foundation field (less than 2%), but have never been observed in our PVP nurseries established with the same seed. The first foundation field was established in the fall of 1999 along with turf plots of the final composite and the initial PVP nursery. The same percentage of variants have been found in certified production, although the taller plants were rouged from the foundation field. Three generations of increase are approved.

Diagram of Origin and Breeding History of SR 8600 Tall Fescue

1. 1962 to 1994

Germplasm collection, evaluation, and genetic improvement.

2. 1991 to 1995

Planted single-plant progenies of plants selected from current cycles of population improvement programs in closely mowed turf trials at Adelphia and North Brunswick, NJ.

3. 1996

Selected 1,900 plants from 19 of the best performing single-plant progeny turf plots planted in 1995. Selected plants were sent to Seed Research of Oregon for further selection and classification.

4. 1997

Plants were selected and rouged according to growth habit, fine leaf texture, freedom from disease and seed yield.

Each plant of SR 8600 tall fescue traces at least 20 percent of its ancestral germplasm to plants selected from or related to Rebel tall fescue.

References

- 1. Buckner, R. C., J. B. Powell, and R. V. Frakes. 1979. Historical Development, in Buckner, R. C., and L. P. Bush (editors) Tall Fescue. Agronomy Monograph 20. American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Inc., Publishers. Madison, Wisconsin pages 1-8.
- 2. Funk, C.R., R.E. Engel, W.K. Dickson, and R.H. Hurley. 1981. Registration of Rebel tall fescue. Crop Sci. 21:632.

EXHIBIT B.

'SR 8600' TALL FESCUE NOVELTY STATEMENT

'SR 8600' tall fescue most closely resembles Rebel Jr. and MiniMustang but can be distinguished from these varieties by a combination of the following:

SR 8600 can be distinguished from Rebel Jr. by the following;

- 1) SR 8600 has a significantly earlier heading date than Rebel Jr. in 1999 and 2000 (Tables 1 and 2).
- 2) SR 8600 has a significantly darker green leaf color in 1999 and 2000 (Table 8).

SR 8600 can be distinguished from MiniMustang by the following:

1) SR 8600 has a significantly darker green leaf color than MiniMustang in 1999 and 2000 (Table 8).

Table 8. Leaf color of tall fescue varieties in 1999 and 2000. These are the plants described in Tables 1 and 2. Leaf color was determined on fresh, fully expanded tiller leaves of each plant of each variety using the Munsell Color Chart. In addition, each color in the Munsell Chart was assigned a number from 1 to 9 with 1 being light green and 9 being very dark green. This allowed a more consistent assignment of a 1-9 color. The color charts used were the 5GY and 7.5 GY Charts. Colors for three varietes are reported but measurements were done on all varieties. These color differences are comparable to what is observed in turf plots and production fields.

Variety	1999 Color	2000 Color
SR 8600 MiniMustang Rebel Jr.	6.9 6.3 5.9	6.8 5.9 5.3
LSD@5%	0.3	0.4

U.S. DEPARTMENT OF AGRICULTURE PLANT VARIETY PROTECTION OFFICE, AMS, USDA NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500 10301 BALTIMORE Blvd. BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY TALL & MEADOW FESCUES

(Festuca spp.)

	(2 050	aca spp.)		
NAME OF APPLICANT(S) Seed Research of Or	regon	TEMPORARY DESIG	NATION VARI	ETY NAME
		SRX 8NJTF, SRX 86	000 SR 8	8600
ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Cod	e) 27630 Llewellyn Rd. Corvallis, OR 97333		OFFICIAL USE ONLY NUMBER
			1 2	00100265
Place the appropriate number that describes the var 089). Characteristics described, including numeric should be for SPACED PLANTS. Royal Horti Characteristics marked with an asterisk * are characteristics.	cal measurements, cultural Society of	should represent those the same recognized color	nat are typical for	the variety. Measured da
* 1. SPECIES: (With comparison varieties, use var	rieties within the sp	ecies of the application va	ariety)	
X = F. arundinacea (Tall)	Turf T	ypes		
1 = Kentucky 31 2 = Rebel 7 = Shortstop 8 = Silverado	3 = Olympic 9 = Rebel Jr.	4 = Bonanza 10 = Mini Mustang	5 = Arid 11 = Crewcut	6 = Rebel II 12 = Bonsai
	Forage	Types		
20 = Kentucky 31 24 = Kenhy	21 = Martin 25 = AU Triump	22 = Forager oh 26 = Fawn	23 = Mozark 27 = Cajun	
2 = F. pratensis (Meadow)				
$30 = Admira \qquad 31 = E$	Beaumont 32 = Co	mtessa 33 = Ensign	34 = Trader	
2. CYTOLOGY:			· · · · · · · · · · · · · · · · · · ·	
42 Chromosom	e Number			·
B. ADAPTATION: (0 = Not Tested; 1 = Not Adap	ted; 2 = Adapted)			
2 Transition Zone 2 West	_2_ Northeast	Other (Specify):		
4. MATURITY: (Date First Headed, 10% of Pan	icle Emergence)	***		· · · · · · · · · · · · · · · · · · ·
5 Maturity Class 1 = Very early () 6 = Bonanza	2 = AU Triumph 7 = Late (Silverac	• `	n) 4 = K31, Kenhy 9 = Very late	5 = Medium (Rebel)
Date Headed <u>116.1</u>	Location Corv	allis, OR 2000	<u> </u>	
4.5 Days earlier than 9				· · · · · · · · · · · · · · · · · · ·
Maturity same as 6_ Compa	rison Variety			
6.1 Days later than 1	•			

* 5. MATURE PLANT HEIGHT CM: (Average of 100 culms from crown to top of panicle, if panicle is nodding, straighten)	* INTERNODE LENGTH CM: (First internode subtending the flag leaf)
1_1_8_1_cm Height	2 5 0 cm Internode length
1_4.8 cm shorter than 4_	30 cm shorter than6_
Height same as <u>9</u> Comparison Variety	Length same as <u>9</u> Comparison variety
_1_38 cm taller than 12_	cm longer than
* HEIGHT AT EAR EMERGENCE CM: (Flag leaf height from cr	own to flag leaf node)
_6 _38 cm Height	
Height same as <u>8</u> Comparison Variety	
6 0 cm taller than 12	
* 6. GROWTH HABIT: (Mature Plants)	
7 = Prostrate () 3 = Semiprostra 7 = Semierect (Rebel) 9 = Erect (Mini	· •
* 7. RHIZOMES (Psuedo):	
_4_5_3 mm Length1 = Absent () 2 = Rai	re (Rebel) 3 = Common (50 % parents) Internode 13.9 mm
······	
* 8. LEAF BLADE: (Tiller leaves/ turf color)	
*6.8 Color: 1 = Light green () 3 = Me 7 = Medium dark green () 9 = Ver	edium light green () 5 = Green () ry dark green ()
*6.8 Color: 1 = Light green () 3 = Me	ry dark green ()
*6.8 Color: 1 = Light green () 3 = Me 7 = Medium dark green () 9 = Ver	ry dark green () Mustang) 5.3 for Rebel Jr.
*6.8 Color: 1 = Light green () 3 = Medium dark green () 9 = Ver 5.9 Specify rating of comparison variety (Minif	ry dark green () Mustang) 5.3 for Rebel Jr.
*6.8 Color: 1 = Light green () 3 = Medium dark green () 9 = Veronomore 5.9 Specify rating of comparison variety (Minilary *1 Anthocyanin: 1 = Absent () 9 = President () 9 = President ()	ry dark green () Mustang) 5.3 for Rebel Jr.
*6.8 Color: 1 = Light green () 3 = Me 7 = Medium dark green () 9 = Ver 5.9 Specify rating of comparison variety (Minil *_1 Anthocyanin: 1 = Absent () 9 = Pre *_1 Basal Hairs: 1 = Absent () 9 = Present (*_5 Margins: 1 = Smooth () *_7 Width Class: 1 = Very coarse () 3 = Coarse ()	ry dark green () Mustang) 5.3 for Rebel Jr. sent () 5 = Semi-rough () 9 = Rough ()
*6.8 Color: 1 = Light green () 3 = Me 7 = Medium dark green () 9 = Ver 5.9 Specify rating of comparison variety (Minil *_1 Anthocyanin: 1 = Absent () 9 = Pre *_1 Basal Hairs: 1 = Absent () 9 = Present (*_5 Margins: 1 = Smooth () *_7 Width Class: 1 = Very coarse () 3 = Coarse ()	ry dark green () Mustang) 5.3 for Rebel Jr. ssent () 5 = Semi-rough () 9 = Rough () 5 = Medium ()
*6.8 Color: 1 = Light green () 3 = Me 7 = Medium dark green () 9 = Ver 5.9 Specify rating of comparison variety (Minil *_1 Anthocyanin: 1 = Absent () 9 = Pre *_1 Basal Hairs: 1 = Absent () 9 = Present (*_5 Margins: 1 = Smooth () *_7 Width Class: 1 = Very coarse () 3 = Coarse () 7 = Fine () 9 = Very	ry dark green () Mustang) 5.3 for Rebel Jr. ssent () 5 = Semi-rough () 9 = Rough () 5 = Medium () ry Fine ()
*6.8 Color: 1 = Light green () 3 = Medium dark green () 9 = Veronto 5.9 Specify rating of comparison variety (Miniferent 1	ry dark green () Mustang) 5.3 for Rebel Jr. sent () 5 = Semi-rough () 9 = Rough () 5 = Medium () ry Fine () * TILLER LEAF WIDTH MM:
*6.8 Color: 1 = Light green () 3 = Medium dark green () 9 = Very 5.9 Specify rating of comparison variety (Minil * 1 Anthocyanin: 1 = Absent () 9 = Present (* 1 Basal Hairs: 1 = Absent () 9 = Present (* 5 Margins: 1 = Smooth () * 7 Width Class: 1 = Very coarse () 3 = Coarse () 7 = Fine () 9 = Very * TILLER LEAF LENGTH CM: (First leaf subtending the flag leaf) 3 = Medium dark green () 9 = Very 5.9 West of the property of the proper	ry dark green () Mustang) 5.3 for Rebel Jr. sent () 5 = Semi-rough () 9 = Rough () 5 = Medium () ry Fine () * TILLER LEAF WIDTH MM: 66 mm Tiller Leaf Width

8. LEAF BLADE: (continued)					0-1-1-0-0
FLAG LEAF LENGTH CM:	٠		FLAC	S LEAF WIDTH MM:	
1 2 5 cm Flag Leaf	Length		<u>5</u> .5	mm Flag Leaf Width	
3 . 8 cm shorter than	_1_		<u>Q7</u>	mm narrower than _1	•
Length same as	_8_	Comparison Variety	Width	same as	Comparison variety
cm longer than			<u>09</u>	mm wider than 12	<u>.</u>
* 9. LEAF SHEATH: (Basal Por	rtion)				
* 9 Anthocyanin (seed	lling):	1 = Absent (K31)	9 = Present ()	
* 9 Auricle Hairiness:		1 = Absent ()	9 = Pr	resent ()	
* 10. PANICLE: (At seed maturi	ty except	where noted.)			
*_4.8 Shape: 1 = Na	ırrow-tap	ering () $5 = 0$	vate ()	7 = Oblong ()	9 = Other (specify)
*4.3 Type: 1 = Co	empact (a	oppressed) 5 = In	termediate ()	7 = Open ()	9 = Other (specify)
* <u>8.3</u> Orientation: 1 = No	odding () 9 = Ei	rect ()		
*_4.2 Branch Pubescence	e: 1 = Gl	abrous ()	9 = Pubescent (()	
* 1 Anther Color (At a	inthesis):	1 = Yellowish Green 4 = Purplish	2 = Green 5 = Reddish	3 = Bluish Green (8 6= Other (Specify)	0% = 1, 20% = 2)
*_2_ Glume Color (At a	nthesis):	1 = Yellowish Green4 = Purplish	2 = Green 5 = Reddish	3 = Bluish Green (7 6= Other (Specify)	5% = 2, 25% = 5)
* 2 6 3 cm Panicle L	ength (fro	om base to tip, if nodding,	straighten; after ar	nthesis)	
4. 9cm shorter than	_6_				
Length same as	10_	Comparison Variety			
_5_8 cm longer than	_12_				
* 11. SEED: (With Lemma & Pel	ea)				
*_2_3_8_2mg per 10	00 seeds				
_4 _7 _2 mg less than	_6				
Weight same as	_9_	Comparison Variety			
<u>3 6 0 mg more than</u>	<u>12</u> _				
PALEA: (Keels or Margins)	6.2 H	•	5 = Shc	ort (Missouri 96)	9 = Long ()
LEMMA:	3.1 H		nhy) 5 = Sex	veral ()	9 = Many (Missouri 96)
5. 4 mm Lemma Lengt		9, 9 = Long) e)	1 _ 3 mm Lemi	ma width	
0. 2 mm shorter than	_9_		02 mm narro	wer than 1	
Length same as		Comparison Variety	Width same as	<u>8</u> Cor	nparison variety

*AWNS: <u>9</u> AWNS: 1	= Absent () 9 = Pre	esent (Falcon)	97_% Plants with awns	
1 . 2 mm Awn length (Of those prese	ent.)			
0. 2 mm Shorter than 10	•			
Length same as _8 Co	emparison Variety	•		
_0_2 mm Longer than11_		•		
12. DISEASE, INSECT, AND NEMATODE I	REACTION: (0= Not	Tested 1= Least	Resistant 9= Most Resistant)	
Melting-out Drechslera poae		Blind Seed	Gloeotinia temulenta	
Leaf Spot D. siccans		Dollar Spo	t <i>Lanzia, Mollerdiscus</i> spp.	
Net Blotch D. dictyoides		Stem Rust	Puccinia graminis	
6 Brown Patch Rhizoctonia solani		T. Blight 7	Typhula incarnata	
C. Leaf Spot Cercospora fectucae		Pythium B	light Pythium spp.	
Pink Snow Mold Gerlachia nivali	is.	Powdery M	lildew Erysiphe graminis	
Silver Top F. tricinctum, F. roses	ım	Crown Rus	t Puccinia coronata	
Other Disease				
Other Insect				
Other Nematode				
13. ENVIRONMENTAL STRESS				
6 Drought Stress 1 = Suscept	ible () 5 = Tol	erant ()	9 = Resistant ()	
Shade Stress 1 = Suscept	ible () 5 = Tol	erant ()	9 = Resistant ()	
Winter Stress 1 = Suscept	ible $()$ $5 = Tol$	erant ()	9 = Resistant ()	
14. GIVE VARIETY OR VARIETIES THAT characteristics, indicate the degree of resemblance	MOST CLOSELY RE e with the following so	SEMBLE THE A	APPLICATION VARIETY. For the following	ıg
1 = Application variety is less than comparison v	variety $2 = \text{Same as } 3$	= More than, bet	ter, greater, darker, etc.	
Character Varieties Rating		Character	VarietiesRating	
Leaf Width 2 = Rebel Jr., MiniM	ustang	Leaf Color	3 = Rebel Jr., MiniMustang	
Panicle Color 1 anthocyanin = Rebo	el Jr.,MiniMustang	Panicle Shape	2 = Rebel Jr., MiniMustang	
Seed Size $2 = \text{Rebel Jr.}, 3 = \text{Mis}$	niMustang	Cold Injury		* * ******
Winter Color		Heat		
Disease				

* 15. EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, number of plants measured and plant spacing must be specified.

Data collected on spaced plants 3 ft. apart planted in two replications of 35 plants each near Corvallis, OR. Standard tall fescue cultural

Data collected on spaced plants 3 ft. apart planted in two replications of 35 plants each near Corvallis, OR. Standard tall fescue cultural conditions were practiced with two Tilt applications for rust control and diuron plus Goal for weed control. Irrigation was applied as needed to prevent stress. ANOVA was used for all statistical analysis followed by Fischer's Protected LSD if significant.

EXHIBIT D. ADDITIONAL DESCRIPTION OF THE VARIETY

Table 1. Heading and anthesis dates for tall fescue varieties in 1999. The plants were established in the fall of 1998 with the seed of control varieties obtained from the repository at the Plant Material Center at Pullman, WA or from the breeder. Two replications of 35 plants were established and the number of plants with at least three heads are as shown. The plants were established a little later than normal so vernalization may not have been as effective. Two applications of TILT were applied to the PVP block to control stem rust. Means followed by the same letter are not significantly different at the 0.05 level. The weather from fall to summer was a little cooler than average and with less rainfall than previous few years. Heading and anthesis were determined for each plant. A plant was considered headed when 3 heads had emerged from the boot and at anthesis when 3 heads had anthers shedding pollen.

Variety	Plant Number	Heading Date Mean	Anthesis Date Mean
KY-31 NE	68	142.3 a	163.7a
Rebel II	69	143.3 ab	164.8 bc
Titan	67	143.6 ab	164.4 ab
Crewcut	62	144.0 bc	165.8 de
KY-31 E	66	144.0 bc	164.7 bc
SR 8500	70	144.0 bc	165.8 de
Grande	67	144.0 bc	164.5 ab
SR 8600	69	144.1 bcd	164.8 ab
MiniMustang	67	144.2 bcd	165.1 bcd
Silverado	69	145.4 cde	166.2 ef
Shortstop	67	145.6 de	166.4 efg
Rebel Jr.	69	146.1 ef	165.3 bcd
Bonsai	63	146.6 efg	167.6 g
SR 8200	68	147.4 fg	165.8 de
Bonanza	58	147.9 g	166.4 efg
SR 8210	64	148.0 g	165.6 cde
LSD @5%		1.5	0.9

Table 2. Heading and anthesis dates for tall fescue varieties in 2000. The plants were established in the fall of 1998 with the seed of control varieties obtained from the repository at the Plant Material Center at Pullman, WA or from the breeder. Two replications of 35 plants were established and the number of plants with at least three heads are as shown. These are the same plants used for data collection in 1999. Dates are much earlier than in 1999 due to bigger size and more effective vernalization. Two applications of TILT were applied to the PVP block to control stem rust. Means followed by the same letter are not significantly different at the 0.05 level.

Variety	Plant Number	Headir Me	ng Date an	Anthes Me	is Date an	
KY-31 NE	68	110.0 a		145.2	a	
KY-31 E	68	110.9 a	·	146.3	ab	
Titan	69	114.2	b	147.6	bc	
SR 8600	69	116.1	bc.	149.7	С	,
Rebel II	69	116.8	С	148.9	bc	
MiniMustang	68	117.3	cd	151.1	d	
Crewcut	67	119.5	de	152.0	de	
Silverado	69	120.0	ef	152.9	е	
Grande	68	120.5	ef	152.3	de	
SR 8500	70	120.6	ef	151.7	de	
Rebel Jr.	69	120.6	ef ·	152.5	de	
Shortstop	67	121.5	efg	153.1	ef	
Bonanza	62	121.7	efg	152.7	f	,
SR 8210	67	121.7	fg	152.2	ef	•
SR 8200	70	123.0	g	152.9	ef	
Bonsai	66	123.3	g	154.3	f	-1
LSD @5%		23		1.4	ŧ	

the top of the plant, disregarding the outer leaves falling beyond the margins of the plant (DUS definition), this characteristic is sometimes greater are those described in Table 1. Randomly selected reproductive tillers were selected after anthesis for measurement, with 60 measurements for Table 7 is from the panicle collected for seed measurements. Plant width is maximum extension of two horizontal measurements of leaf spread at Table 3. Comparative plant morphological measurements of tall fescue varieties in a spaced plant nursery in 1999 near Corvallis, OR. The plants each characteristic, 30 per rep. Panicle length in this table is that measured in the field on the same tillers used for plant height. Panicle length in on younger plants which will assume a more decumbent panicle habit than more mature plants.

	n n	Panicle Branch	Height		•
Variety	Height (cm)	Length (cm)	Emergence (cm)	Flant Width (cm)	Fanicie Length (cm)
Bonsai	63.55	11.26	28 84	15 74	- C U
Silverado	66.63	12.43	20.01	10.7	10.04
SR 8600	67.54	11 94	34 23	50 CB	17.71
Rebel Jr.	67.92	12.53	34 45	32.02	/8·/-
Grande	68.31	13.28	36.90) i	- 1 1.0 2.4 5.0 5.0
MiniMustand	73.52	13.33	38 48 48	00.53 80 AR	0+0+
SR 8200	74.06	13.28	37.98	50.00 50.00	0. 00
Crewcut	74.32	13.29	37.49	59.50	20.4Z
SR 8500	74.98	12.56	37.41	7 OC - 20 E	0,00 10,10
SR 8210	78.58	15.18	40.71	57.05	10.13
Shortstop	79.65	14 64	40 58	10.10	19.50
Rehel II	81 70		45.00	40.00	2 % 2 %
Titon	2.5	A0.00	45.90	08.08	20.05
	83.44	15.64	49.71	72.85	19.74
Bonanza	84.32	14.50	42.71	51.44	22.88
Kentucky 31 NE	97.17	18.60	56.55	75.77	23.81
Kentucky 31 E	99.72	18.25	58.58	72.84	24.89
LSD @5%	4.86	1.44	3.35	4.95	1.59

are those described in Table 2 and were the same plants measured in 1999. Randomly selected reproductive tillers were selected after anthesis for measurement, with 60 measurements for each characteristic, 30 per rep. Panicie length in this table is that measured in the field on the same tillers used for plant height. Plant width is is a measurement of the base of the plant, which may be different than the characteristic measured in 1999. Table 4. Comparative plant morphological measurements of tall fescue varieties in a spaced plant nursery in 2000 near Corvallis, OR. The plants

Variety	Plant Height (cm)	Panicle Branch Internode Length (cm)	Height at Ear Emergence (cm)	Plant Width (cm)	Panicle Length (cm)
, c					
consai	104.30	23.52	57.83	31.35	20.58
Silverado	109.72	23.45	63.78	31.70	24 57
SR 8500	112.42	22.74	65.64	00 00	0.1.0 0.00 0.00
MiniMustang	115.34	23.91	8 C C C C C C C C C C C C C C C C C C C	20.00	0 to 0
SR 8600	118 11	25.03	0000	00.50	50.62
Prondo	7000	0.00	00.00		20.34
בַּבְּיבְּיבְּיבְּיבְּיבְּיבְיבִּיבְּיבְיבִּיבְּיבְּיבְיבִּיבְּיבְיבִּיבְיבְיבִּיבְיבְיבִיבְיבְיבְיבִיבְיבְיבִי	120.02	26.24	69.77	35.27	28.09
Hebel Jr.	122.22	26.34	70.03	31.68	28.22
Crewcut	122.59	25.63	71.00	36.38	97.7E
Shortstop	122.63	24.45	71.36	33 83	26.98 96.98
3R 8200	126.18	25.97	73.81	33.53	28.00
3R 8210	128 50	76.76	000	55.50	20.3
	50.03	40.74	/8.06	32.65	28.15
sonanza	132.91	28.35	79.18	34.59	32.89
Sebel II	135.90	27.95	82.05	37.58	31.24
itan	136.86	26.97	81.91	00 00 00 00	10.00
Centucky 31 NE	149,21	28.79	90 13	40.08	7000
Contribute 04 E	7000) F		00.01	10.00
Nemucky 31 E	149.63	27.82	92.40	36.98	35.05
SD @5%	5.70	1.82	4.71	2.50	2.17

Table 5. Leaf characteristics of tall fescue varieties in 1999 near Corvallis, OR. The plants are those described in Table 1. The leaves were measured on the reproductive tillers utilized in Table 3. The vegetative leaf was measured as the last fully expanded leaf on vegetative tillers on the same plants as described in Table 1.

	Flag	Flag Leaf	Subten	Subtending Leaf	Vegetativ	Vegetative Tiller Leaf
Variety	Length (cm)	Width (mm)	Length (cm)	Width (mm)	Length (cm)	Width (mm)
Bonsai	6.34	4.74	10.81	6.97	ስ ተ	7 20
Silverado	7.84	5.82	13.05	8 22	2.50	67.0 00.0
Rebel Jr.	8.69	6.22	14.12	06.8	5.10	9.00 9.00
R 8600	8.77	6.60	14.53	9.01	20.73	. o
3 8210	9.08	5.99	16.51	8.96	24.31	9 6
Titan	9.10	6.40	15.92	9.62	28 64	2.0
Grande	9.34	6.43	15.09	8.88	22.61	80.05
SR 8500	9.40	5.98	14.83	8.10	20,84	2 2 2 3 3
niMustang	9.41	6.05	15.14	8.22	22.79	. ec
Shortstop	9.53	6.59	15.06	9.01	22.96	9 57
Crewcut	9.86	6.23	14.84	8.43	22.44	848
Kentucky 31 E		7.92	20.24	11.12	34.72	11.51
entucky 31 NE	10.76	7.92	19.31	11.62	31.89	10 14
SR 8200	11.18	7.52	17.03	9.95	23.72	6
Rebel II	11.49	6.99	18.22	9.93	29.30	635
Bonanza	12.39	7.18	17.54	10.18	24.81	9.37
LSD@5%	1.35	0.66	1.65	0.67	, y 20° C	o c

Table 6. Leaf characteristics of tall fescue varieties in 2000 near Corvallis, OR. The plants are those described in Tables 1 and 2. The leaves were measured on the reproductive tiliers utilized in Table 4. The vegetative leaf was measured as the last fully expanded leaf on vegetative tiliers on the same plants as described in Table 1 and 2.

	Flag	Flag Leaf	Subten	Subtending Leaf	Vegetativ	Vegetative Tiller Leaf
Variety	Length (cm)	Width (mm)	Length (cm)	Width (mm)	Length (cm)	Width (mm)
Bonsai	10:74	4.63	16.86	90 9	30.46	o v
SR 8600	12.54	5.50	20.91	99.9	30.40	0.40
Crewcut	13:34	5.79	22.36	5 6	00.40	0 0
SR 8500	13.59	08.4	0.10	- 0	46.50	0.63 6
Silverado	13.87	÷ u	- 0. 50) ()	35.24	6.49
MiniMulatora	5 5) ·	22.10	6.51	40.74	6.42
IIIVIUSIANG	35.	4.56	21.97	60.9	41.34	5.92
Hebel Jr.	14.72	5.99	23.66	7.16	42.45	828
Titan	14.88	5.68	25.78	7.18	48.58	0.E2
Shortstop	14.98	5.55	22.99	6.66	38.06	, e
Grande	15.20	6.17	22.92	7.28	40.82	+ &
SR 8210	15.56	5.55	27.09	7 6 9	20.00	S 6
SR 8200	15.78	6.26	26.59	7.55	48 78	0.30 75
Kentucky 31 NE	16.24	6.19	28.00	800	7.47	5 6
Kentucky 31 E	629	6.81	28.29	Q 0.7	0000	200
Rehel II	17.30	8 94	0 0 0	o i	30.92	6.24
	3 6	. O.O.	23.10	45.7	41.21	7.16
bonanza	17.85	6.61	28.82	8.01	49.21	7.71
LSD@5%	1.91	0.62	80 6	Ċ	•	į

the collected panicles and was independent of the panicle measurement done on the plants during the growing season. Panicles were collected from both reps, with at least 30 panicles per replication. Seed measurements were performed on a fully formed viable seed from the bottom third of Table 7. Panicle and seed characteristics of tall fescue varieties in 1999. Plants and growing conditions are as described in Table 1. Panicles were collected from the plants in the PVP nursery at seed maturity and placed in envelopes for later analysis. The panicle length measurement was of the panicle. All of the seed from each panicle were removed and blown to remove light seed to obtain seeds/panicle, mgs of seed/panicle and mg/1000 seeds, which was determined for each panicle.

Variety	Panicle Length(cm)	% Branchs Rough	No. of Seeds/ Pancicle	Weight of Seeds/ Panicle(mg)	Seed Weight (mg/1000 seeds)
Bonsai	14.47	40	147	371	2352
Silverado	16.52	4	173		2007
SR 8600	17.18	42	000	2002	777.0
SR 8500	17.47	34	248	. n o n	2158
Grande	18.04	. FS	900	401	1001
MiniMustang	18.13	48	197	445	010
Rebel Jr.	18.18	20	199	0.4	2300
Crewcut	18.42	65	252	587	2247
Shortstop	18.65	39	214	468	0000
SR 8210	18.70	37	238	618	0.57.1 0.57.1
SR 8200	18.71	43	257	0000	- HOO
Rebel II	19.69	49	236	763	2854
Titan	20.06	59	250	56.55	2158
Bonanza	21.27	56	207	487	0.00
Kentucky 31 NE	22.52	51	231	530	2374
Kentucky 31 E	23.49	62	222	524	2330
LSD@ 5%	1.39	17	4	69-	340

	Len	Lemma	% Seeds	Awa
Variety	Length(mm)	Width(mm)	With Awns	l ength/mm)
	,		·	
Bonsai	6.57		7	7
Silverado	. 0	- L	2	7 .
Oliverado	5.32	7.25	<u>-</u> 6	1.18
SR 8600	5.37	1.29	26	Q . T
SR 8500	4.99	1.25	001	
Grande	6.45	141	200	200
MiniMustand	5.70	70	9 0	3.0
) i	17.	00-	.38
Hebel Jr.	5.58	1.23	100	T
Crewcut	6.86	<u>ල</u>	100	. e
Shortstop	5.34 46.6	20.7		7
SB 8210	. u	9 0	2	01.
01.02.10	9.50	1.30	100	1.15
SH 8200	5.38	1.40	100	1.20
Rebel II	5.26	1.17	100	-
Titan	5.59	1.24	Š	7
Bonanza	0.30	1 45	900	4.
		?	2	
Kentucky 31 NE	6.59	1.46	100	1.12
Kentucky 31 E	5.99	1.25	100	1.19
			•) - :
LSU@5%	σ	77.0	9	8

Table 7. (Continued).

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